METHOD AND DEVICE FOR PERCEPTION OF AN OBJECT BY ITS SHAPE, ITS SIZE AND/OR ITS ORIENTATION

ABSTRACT OF THE DISCLOSURE

Systems and methods for localizing a shape in a space represented by pixel data forming a multidimensional space i, j, evolving with time, and represented at a succession of instants T, wherein the data is associated with a temporal parameter A, B, ... in the form of digital signals DATA(A), DATA(B),...composed of a sequence A_{ijt}, B_{ijt}, ... of binary numbers of n bits associated with synchronization signals defining the instant T of the space and the position i, j in this space, at which the signals A_{ijt}, B_{ijt},... were received. In one embodiment, a) a region of interest of the space is perceived in relation to a statistic criterion applied to a temporal parameter, b) the main region thus perceived is deactivated, c) repeating a) and b) in order to perceive other regions of interest inside a non-deactivated space region, d) the procedure is stopped when a remaining region, non-deactivated, in the space does not provide a region of interest corresponding to the statistic criterion, e) a counter is incremented for each consecutive valid frame for each region of interest thus perceived, and f) for each region of interest thus perceived, the center of gravity is stored.